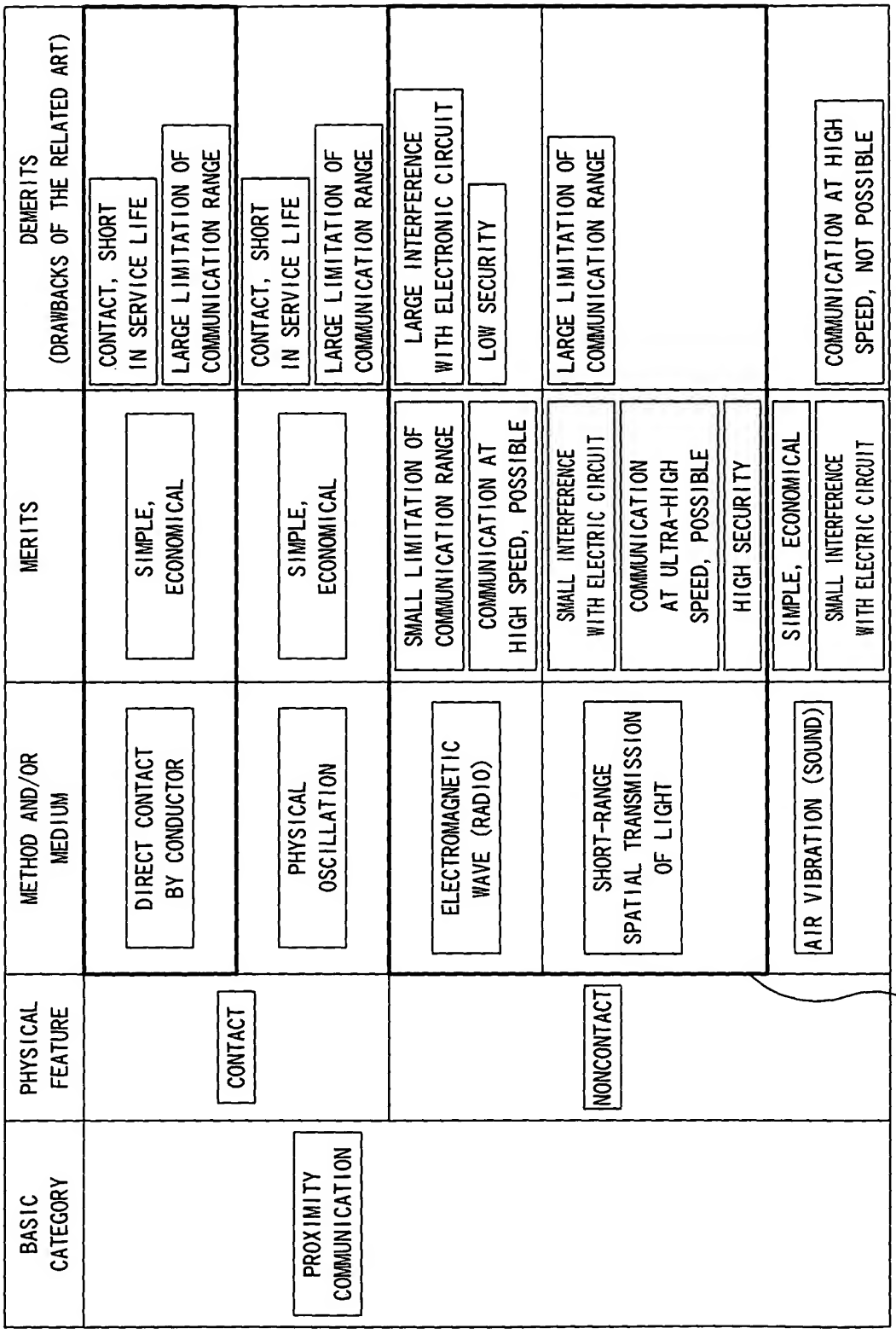

FIG. 1 (Prior Art)

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BASIC CATEGORY	PHYSICAL FEATURE	METHOD AND/OR MEDIUM	MERITS	DEMERITS (DRAWBACKS OF THE RELATED ART)
TELECOMMUNICATION	CONTACT	CONDUCTOR OR CABLE	SIMPLE, ECONOMICAL, COMMON	HIGH-SPEED COMMUNICATION DEPENDS UPON COMMUNICATION DISTANCE; INTERFERENCE WITH ELECTRIC CIRCUIT
		OPTICAL FIBER	SMALL INTERFERENCE WITH ELECTRIC CIRCUIT; COMMUNICATION AT ULTRA-HIGH SPEED, POSSIBLE	RELATIVELY EXPENSIVE; ALIGNMENT OF COUPLINGS, DIFFICULT
	NONCONTACT	ELECTROMAGNETIC WAVE (RADIO)	SMALL LIMITATION OF COMMUNICATION RANGE; SIMPLE, ECONOMICAL, COMMON	LARGE INTERFERENCE WITH ELECTRONIC CIRCUIT; LOW SECURITY
		SPATIAL TRANSMISSION OF LIGHT	SMALL INTERFERENCE WITH ELECTROMAGNETIC WAVE; HIGH SECURITY	LARGE LIMITATION OF COMMUNICATION RANGE; NOISES FROM SURROUNDING EQUIPMENT
		AIR VIBRATION (SOUND)	SIMPLE, ECONOMICAL; SMALL INTERFERENCE WITH ELECTRIC CIRCUIT	COMMUNICATION RANGE, SHORT; COMMUNICATION AT HIGH SPEED, NOT POSSIBLE

FIG.2(Prior Art)

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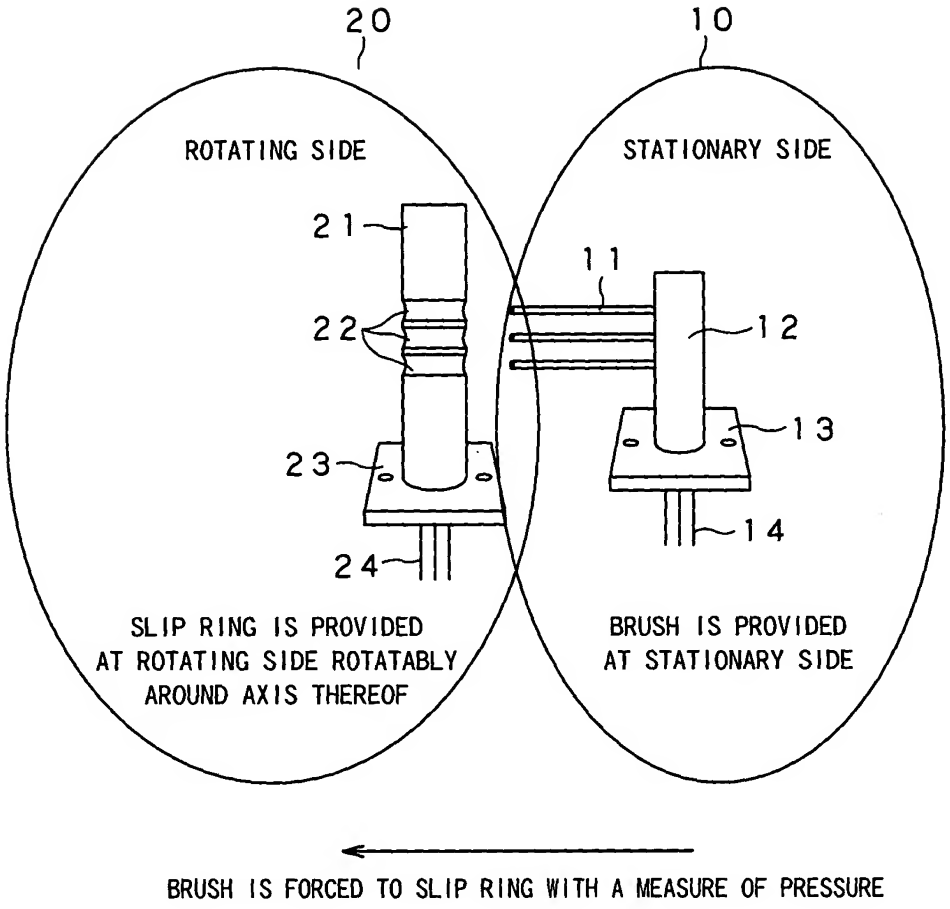

FIG.3(Prior Art)

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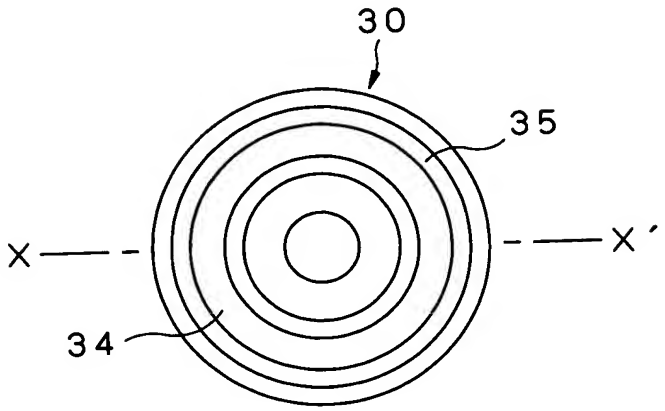

FIG.4A(Prior Art)

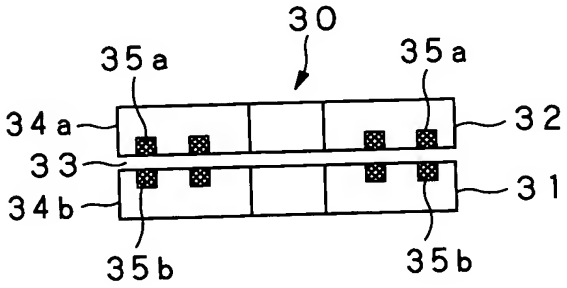

FIG.4B(Prior Art)

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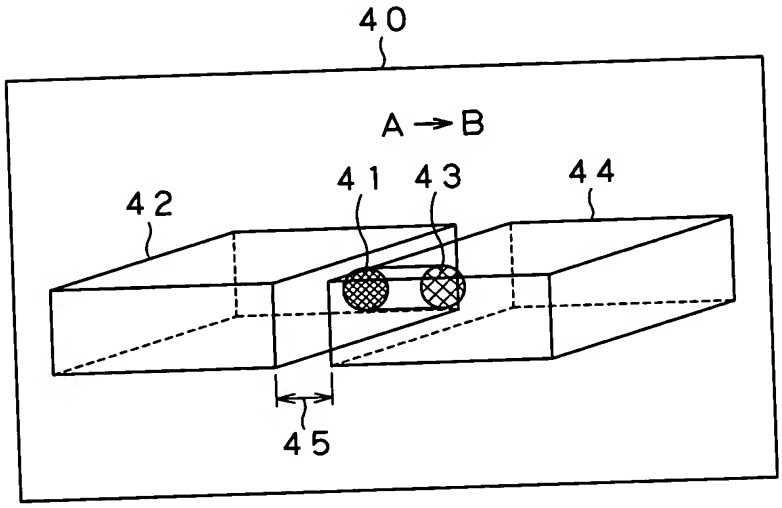

FIG.5

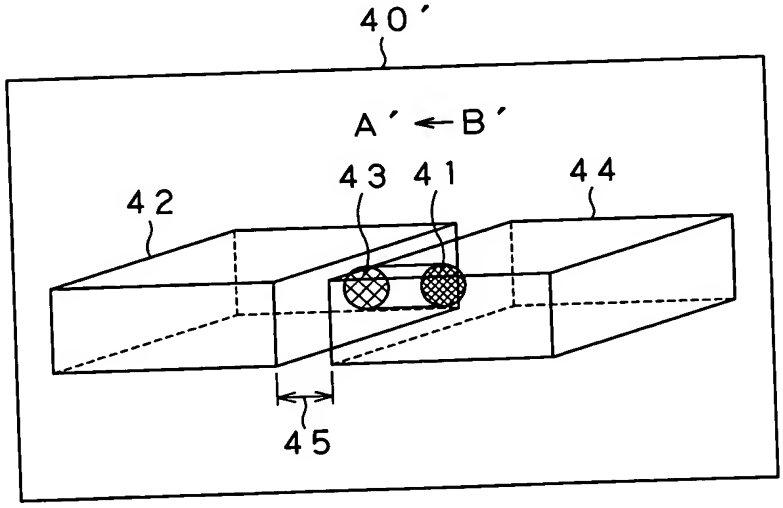

FIG.6

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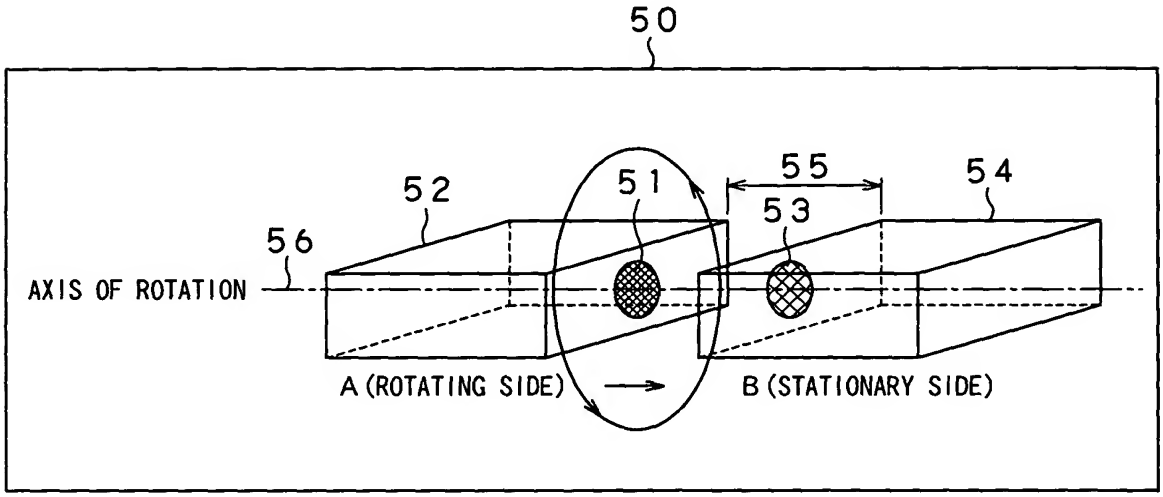

FIG.7

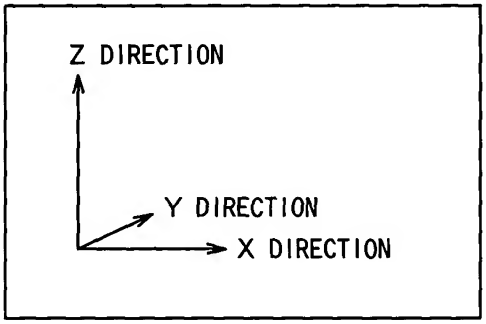

FIG.8

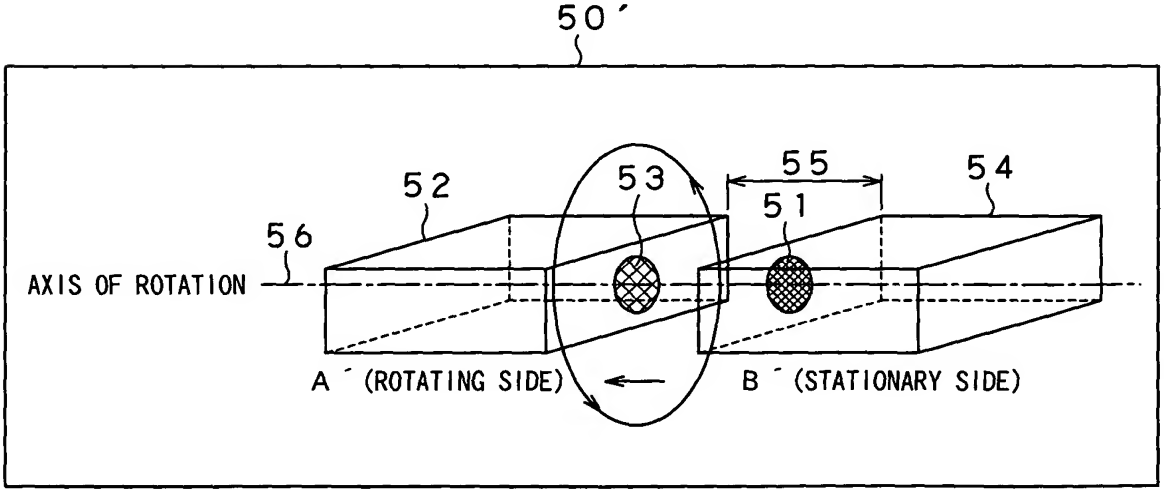

FIG.9

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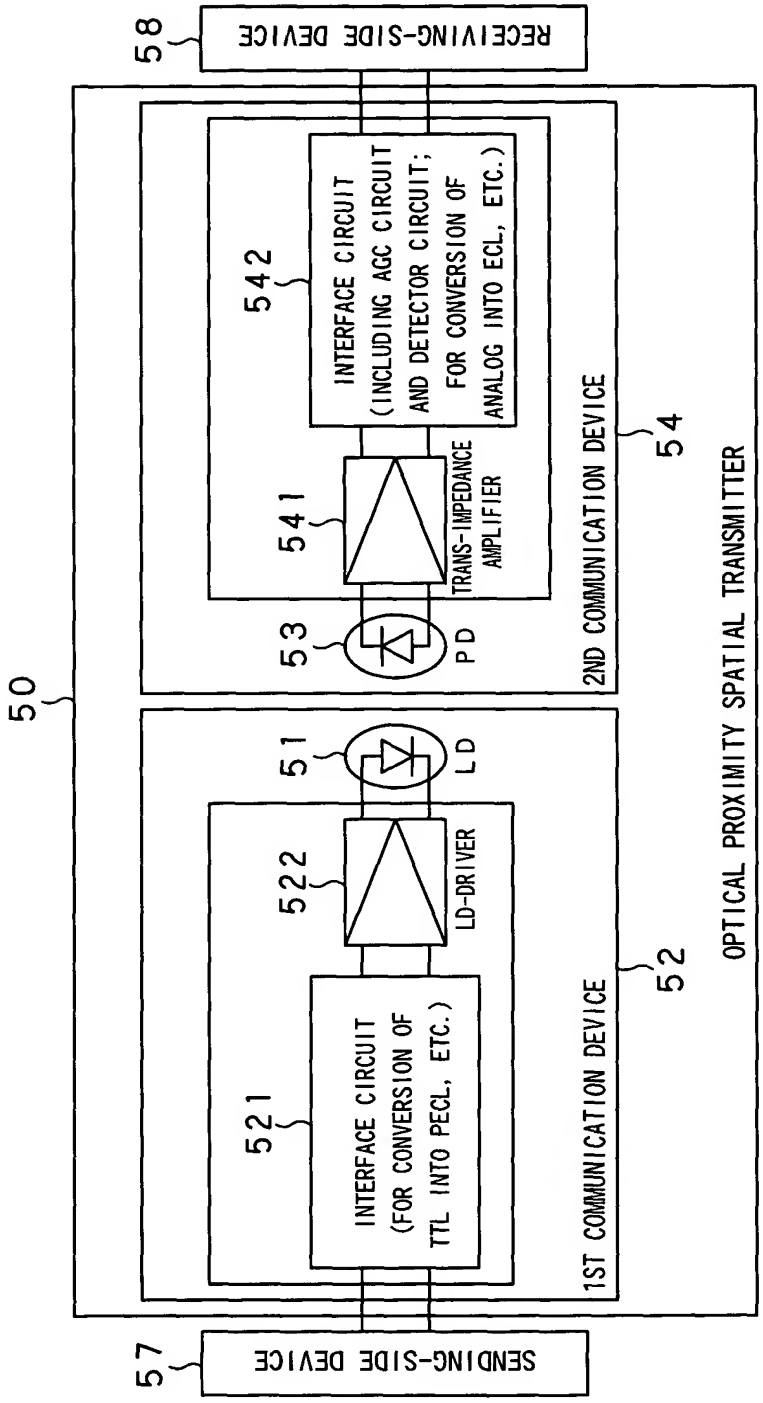

FIG.10

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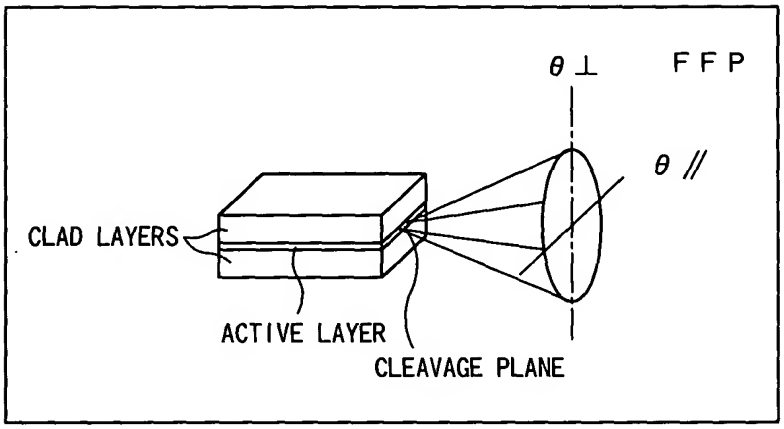
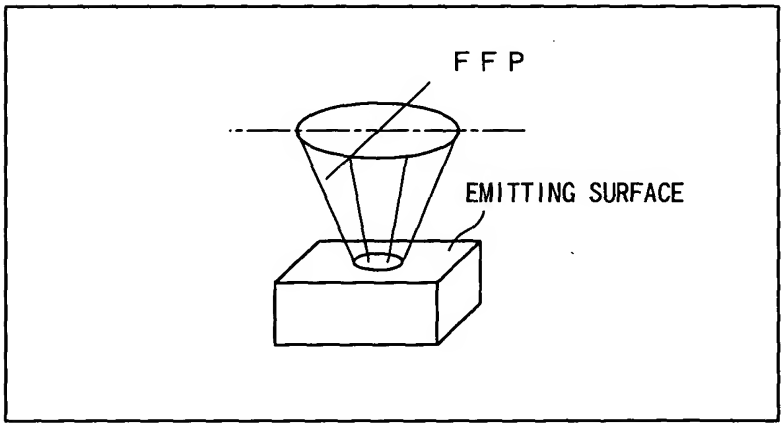


FFP : ELLIPTIC (GENERALLY, θ //≒10°, θ ⊥≒30°)

FIG.11A



FFP : CIRCULAR (GENERALLY, θ ≒10°)

FIG.11B

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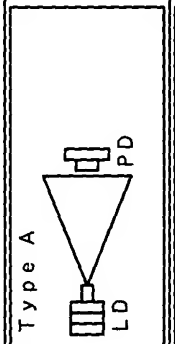
	EFFICIENCY	SPATIAL TRANSMISSION DISTANCE	X-AXIAL PHOTODETECTION WIDTH	Y- AND Z-AXIAL PHOTODETECTION WIDTH	APTITUDE	ECONOMICAL EFFICIENCY
 TYPE A: LD AND PD ARE DIRECTLY OPPOSITE TO EACH OTHER (IMPRACTICAL)	–	–	–	–	×	–
TYPE B: LD WITH LENS IS OPPOSITE TO PD	△	○	○	△	FOR SYSTEM IN WHICH OSCILLATION IN DIRECTION OF OFF-AXIS DEVIATION IS SMALL	○
TYPE C: LD IS OPPOSITE TO PD WITH LENS	△	△	△	○	FOR SYSTEM IN WHICH OSCILLATION IN DIRECTION OF OFF-AXIS DEVIATION IS LARGE	○

FIG.12

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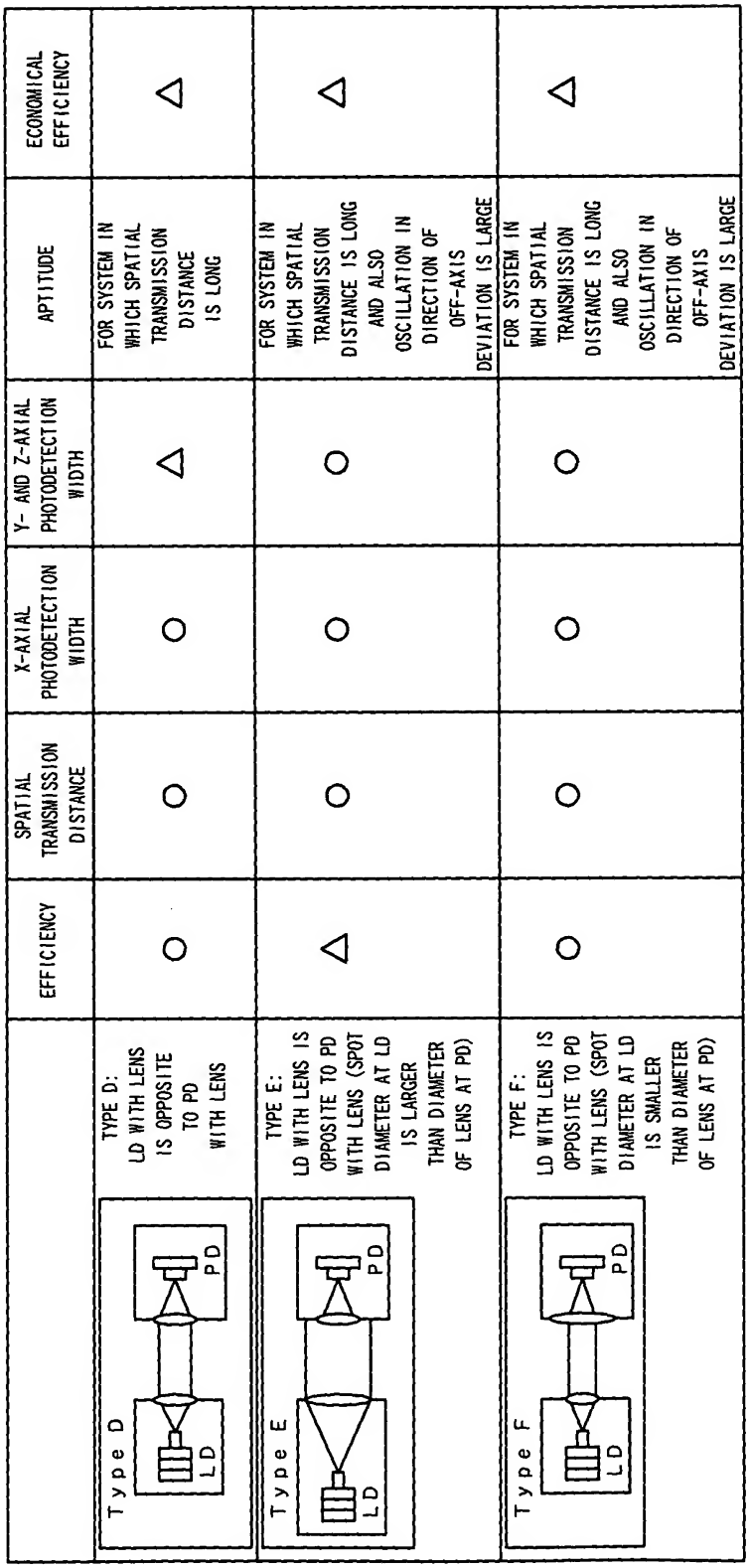

	EFFICIENCY	SPATIAL TRANSMISSION DISTANCE	X-AXIAL PHOTODETECTION WIDTH	Y- AND Z-AXIAL PHOTODETECTION WIDTH	APTITUDE	ECONOMICAL EFFICIENCY
Type D LD PD TYPE D: LD WITH LENS IS OPPOSITE TO PD WITH LENS	○	○	○	△	FOR SYSTEM IN WHICH SPATIAL TRANSMISSION DISTANCE IS LONG	△
Type E LD PD TYPE E: LD WITH LENS IS OPPOSITE TO PD WITH LENS (SPOT DIAMETER AT LD IS LARGER THAN DIAMETER OF LENS AT PD)	△	○	○	○	FOR SYSTEM IN WHICH SPATIAL TRANSMISSION DISTANCE IS LONG AND ALSO OSCILLATION IN DIRECTION OF OFF-AXIS DEVIATION IS LARGE	△
Type F LD PD TYPE F: LD WITH LENS IS OPPOSITE TO PD WITH LENS (SPOT DIAMETER AT LD IS SMALLER THAN DIAMETER OF LENS AT PD)	○	○	○	○	FOR SYSTEM IN WHICH SPATIAL TRANSMISSION DISTANCE IS LONG AND ALSO OSCILLATION IN DIRECTION OF OFF-AXIS DEVIATION IS LARGE	△

FIG.13

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FIG.14

FIG.15A

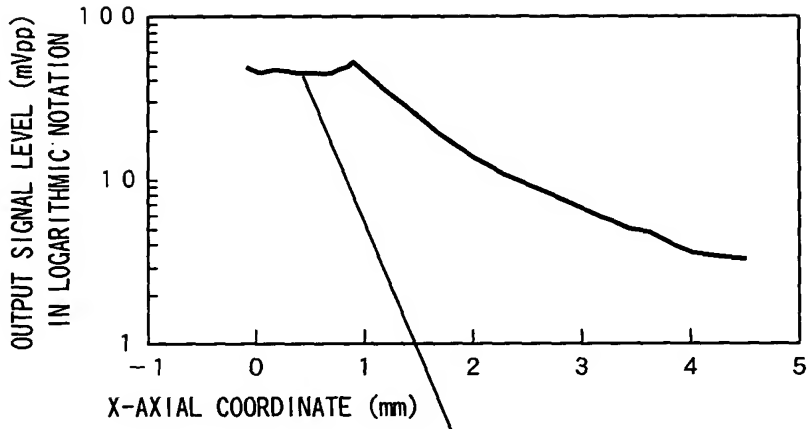
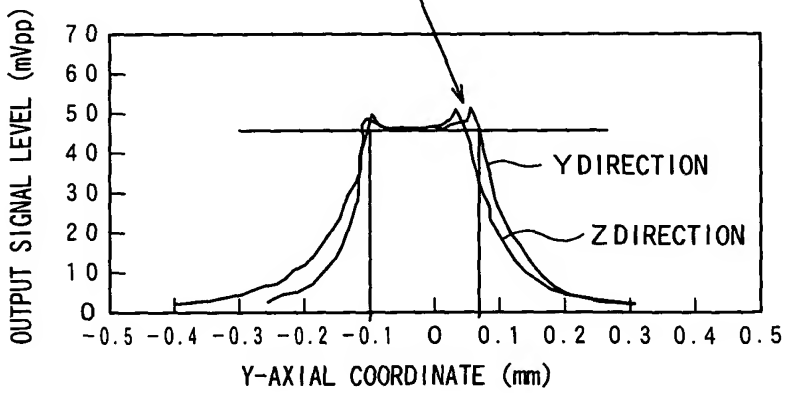


FIG.15B



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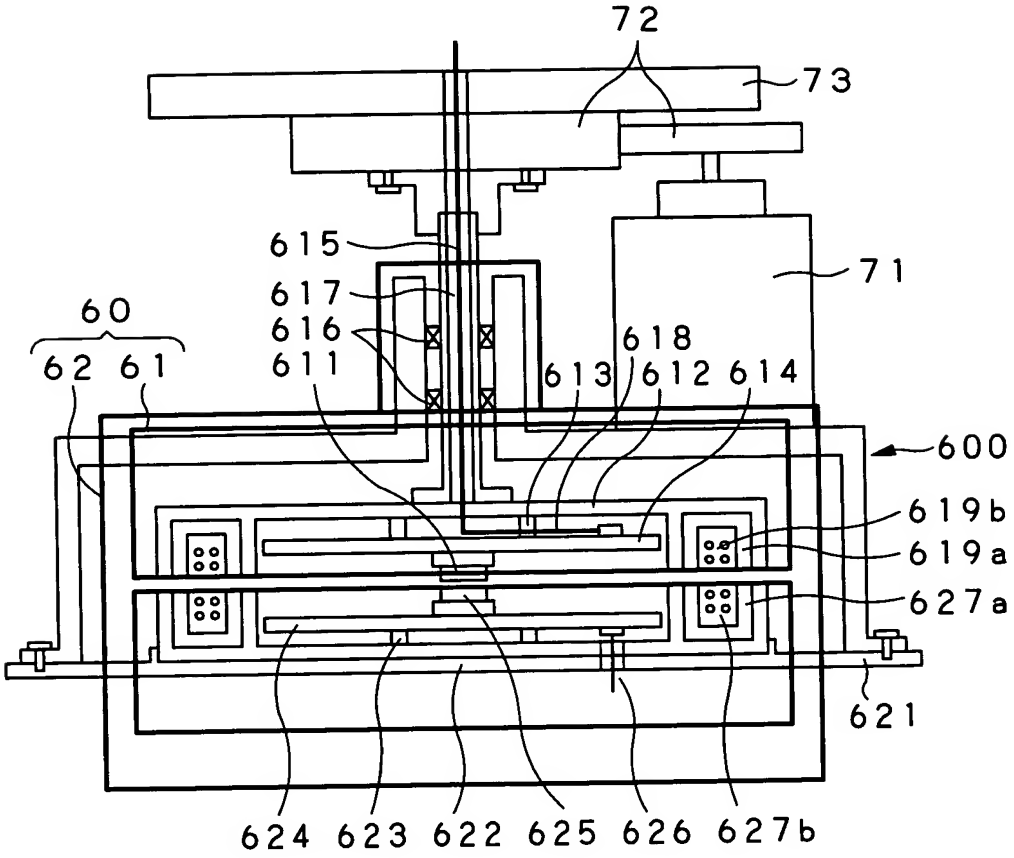

FIG. 16

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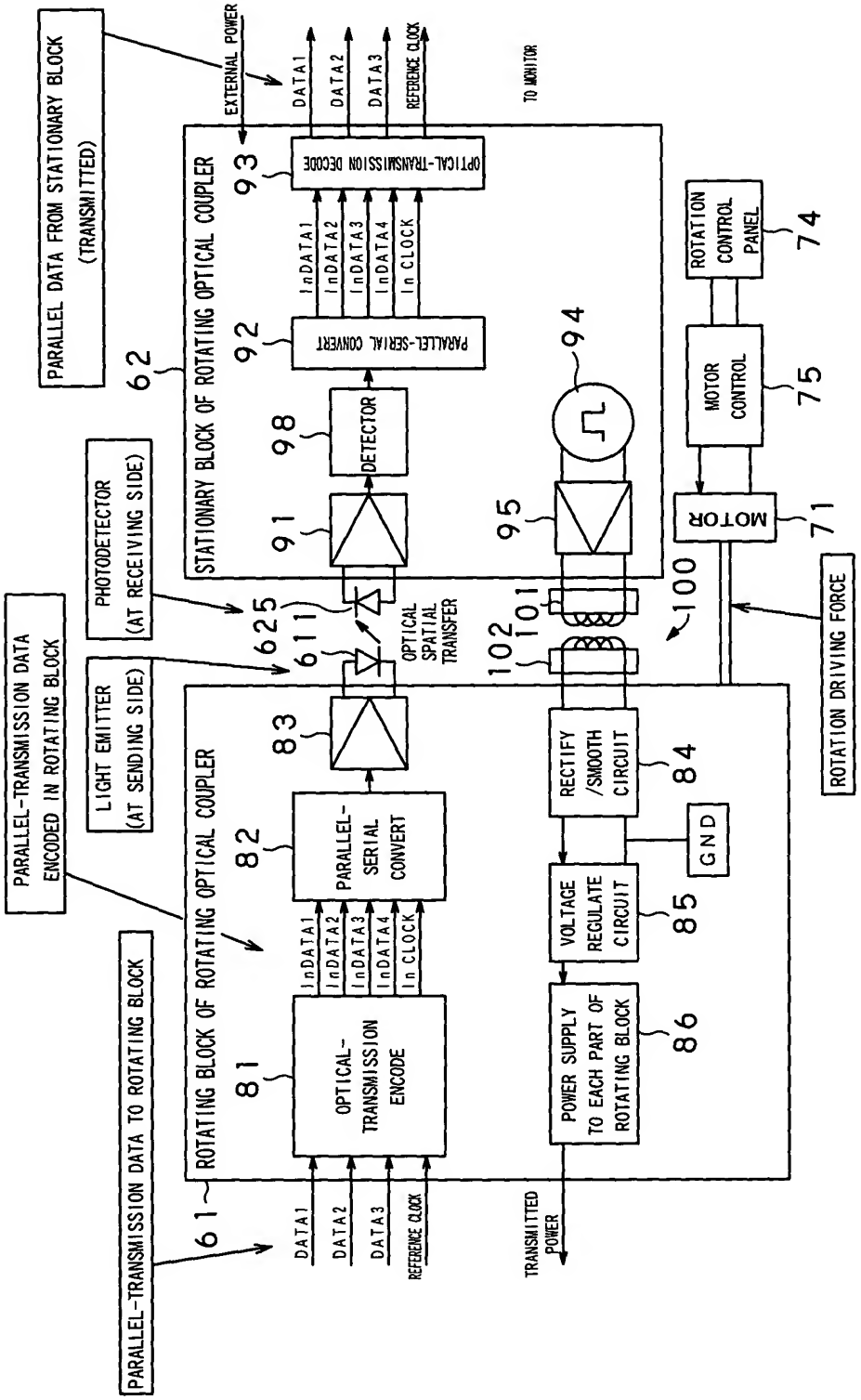

FIG. 17

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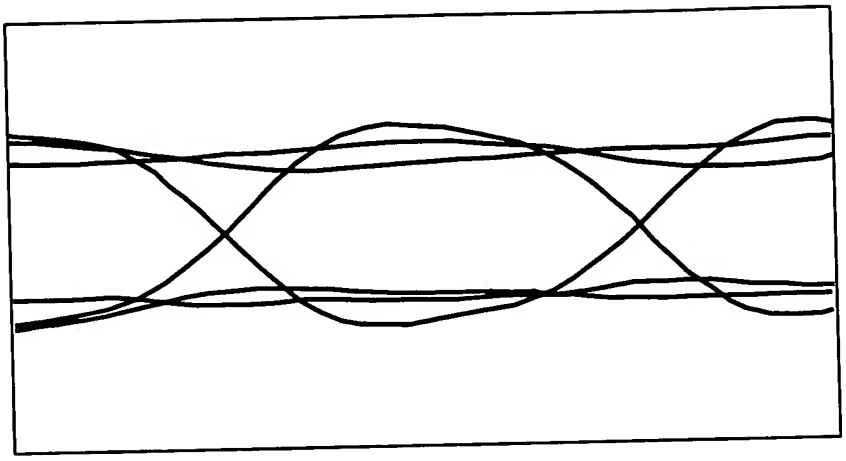

FIG.18

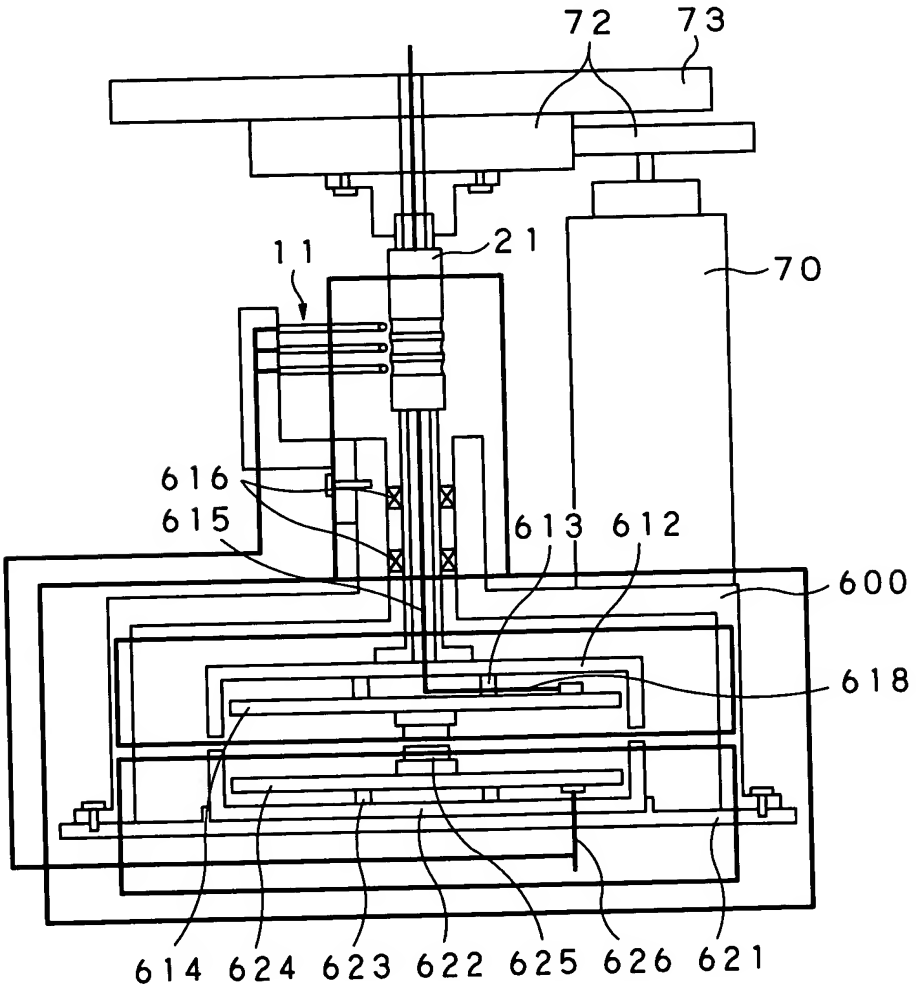

FIG.19

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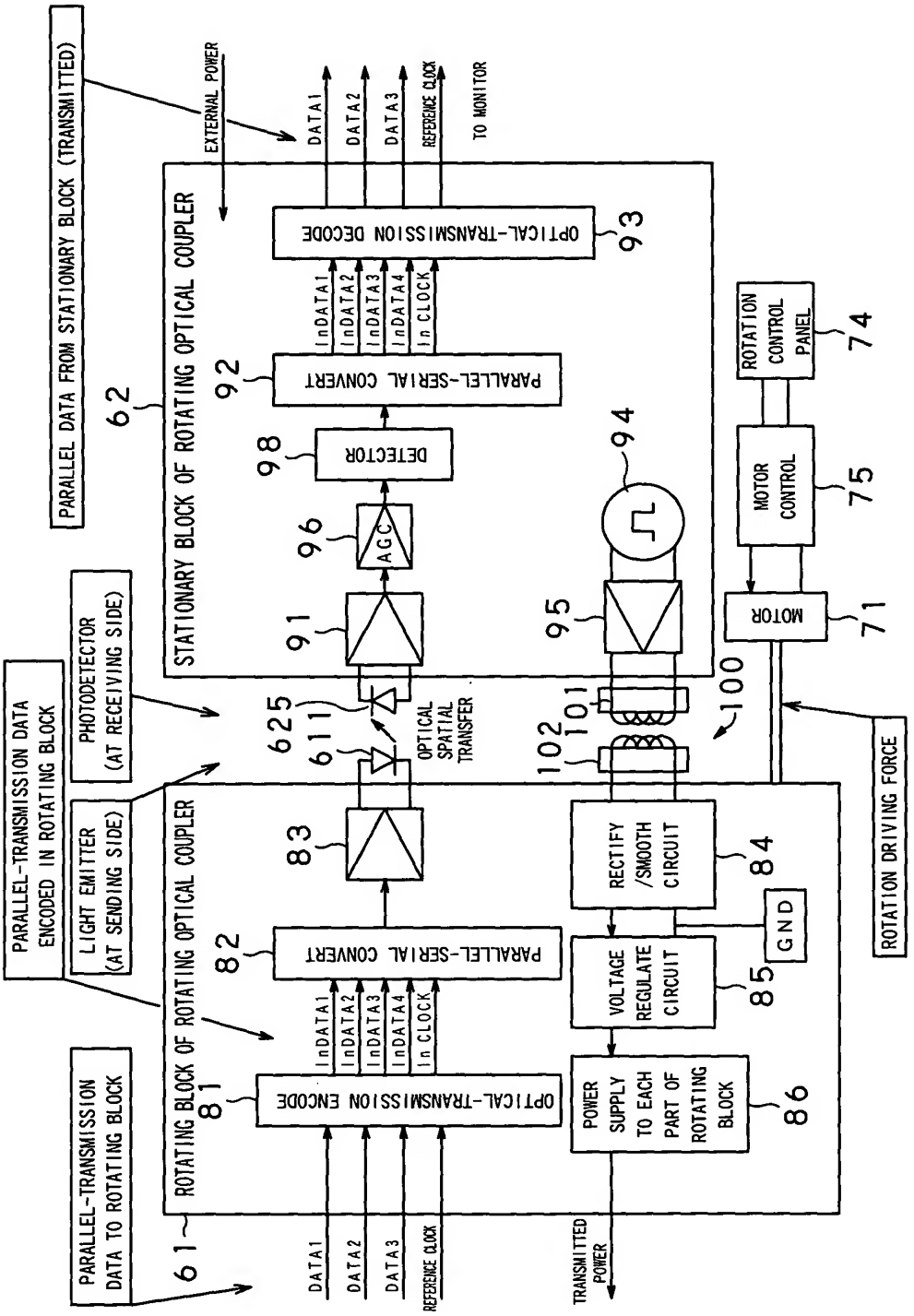

FIG.20

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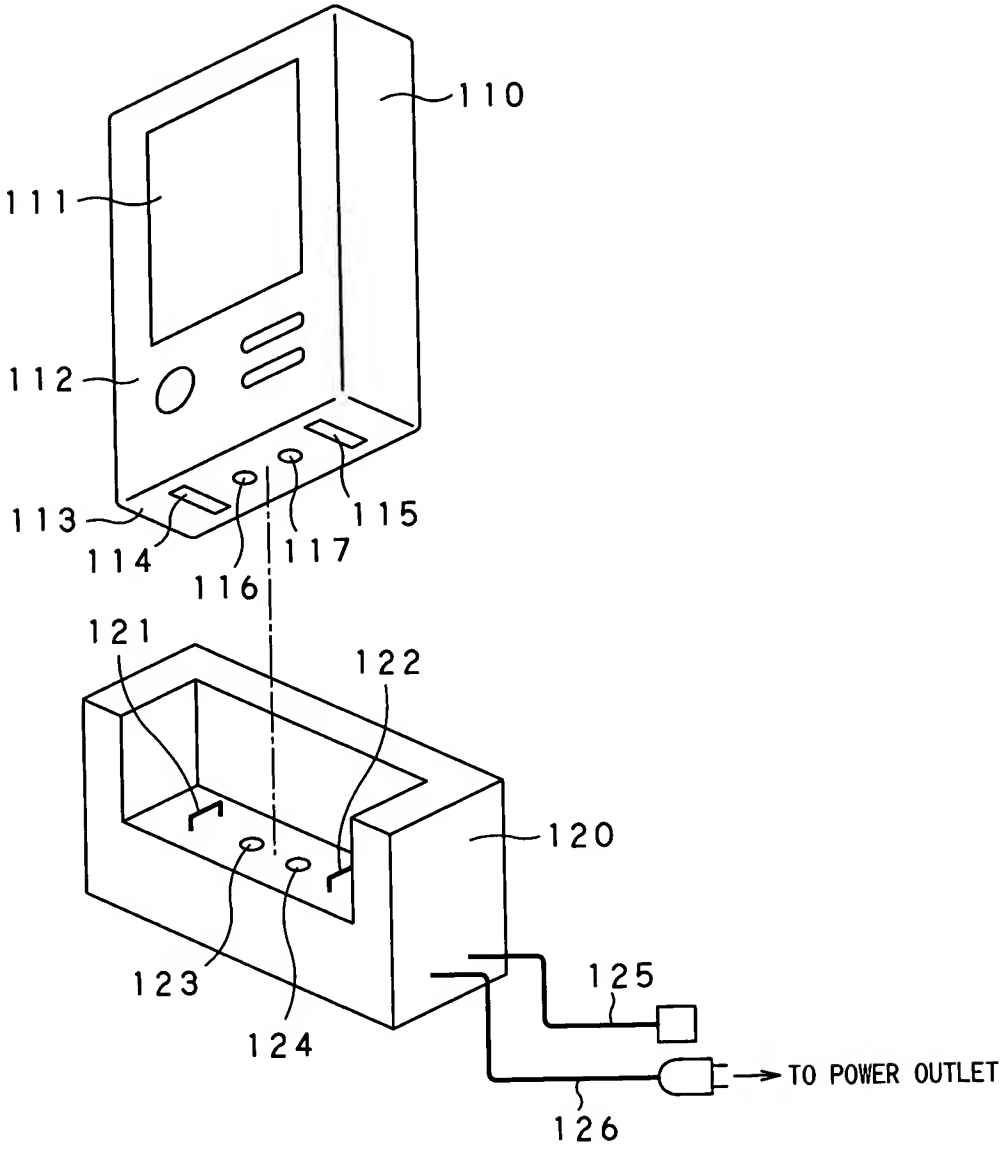

FIG.21

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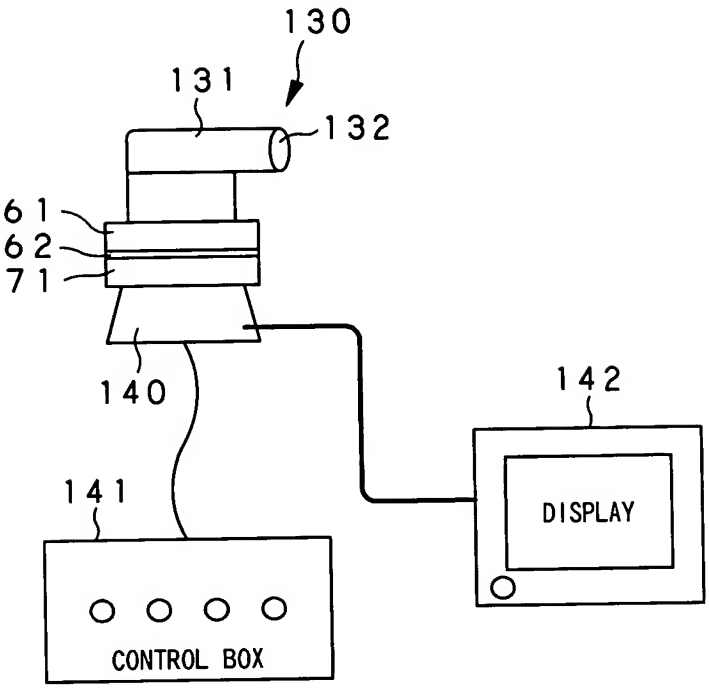

FIG.22

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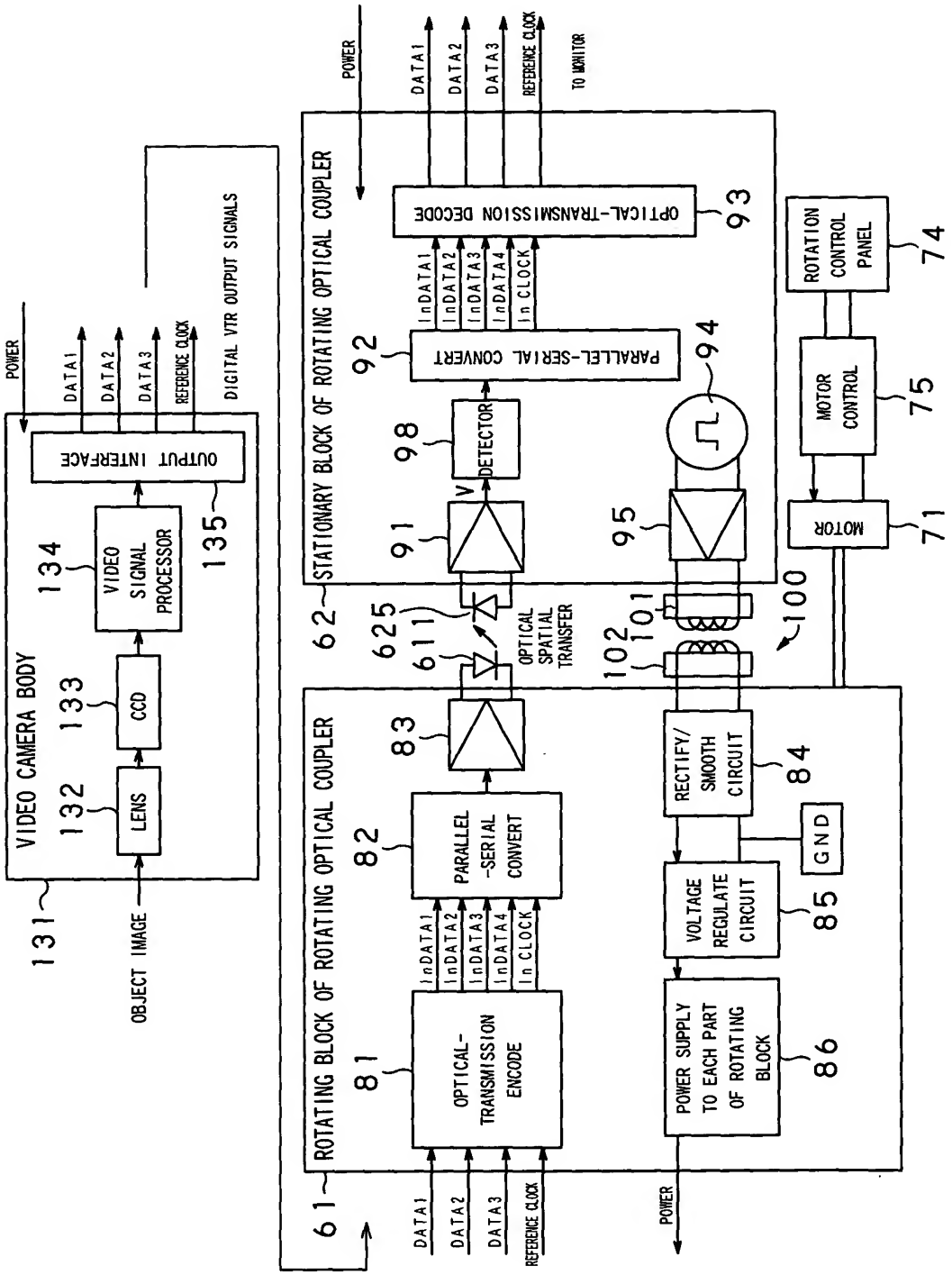

FIG.23

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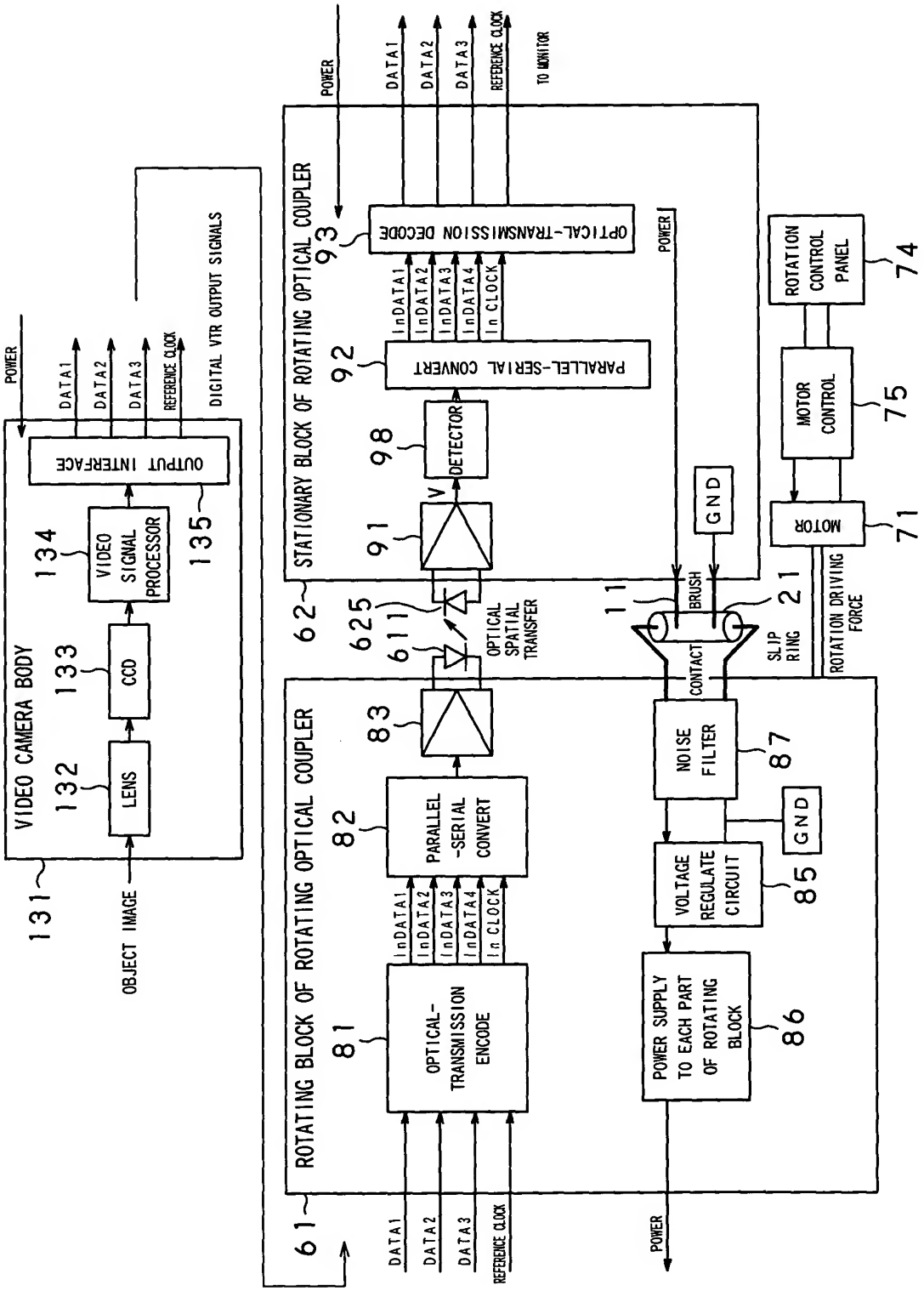

FIG.24

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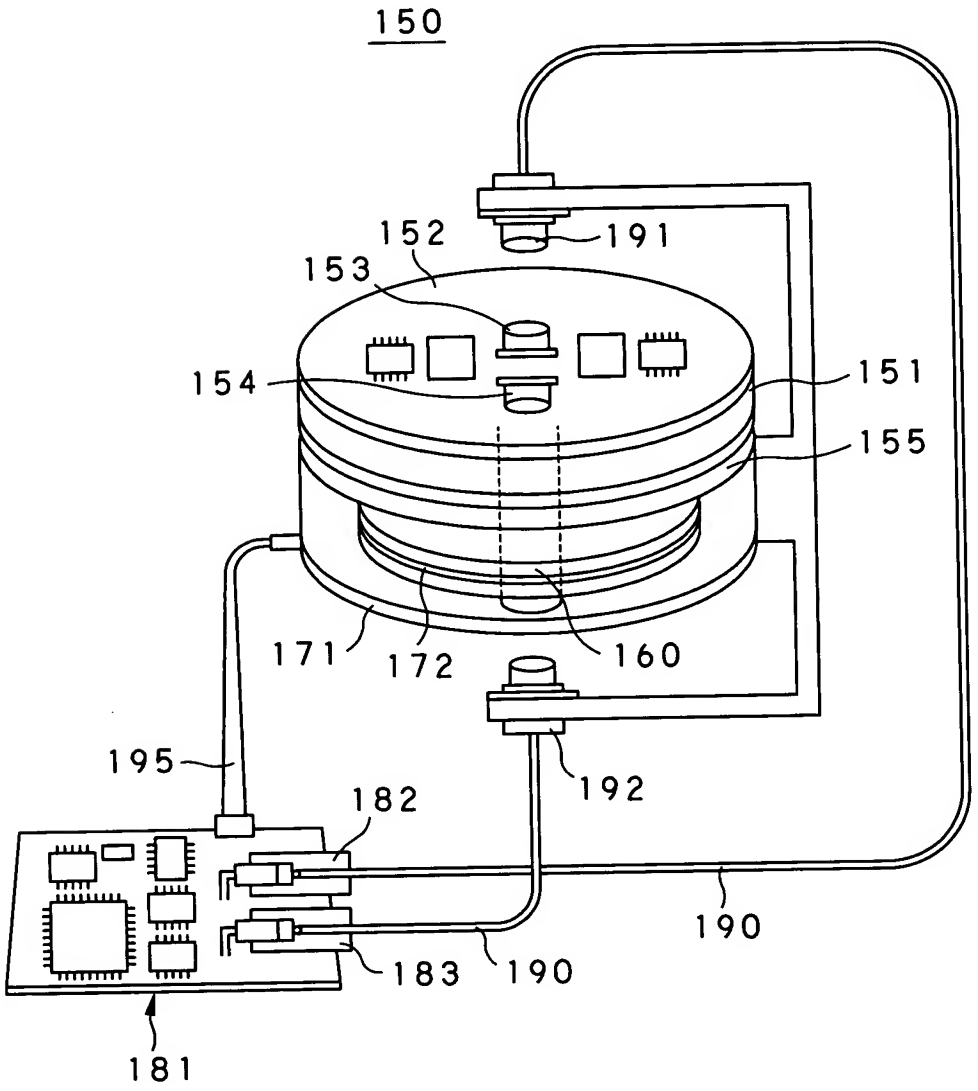

FIG.25

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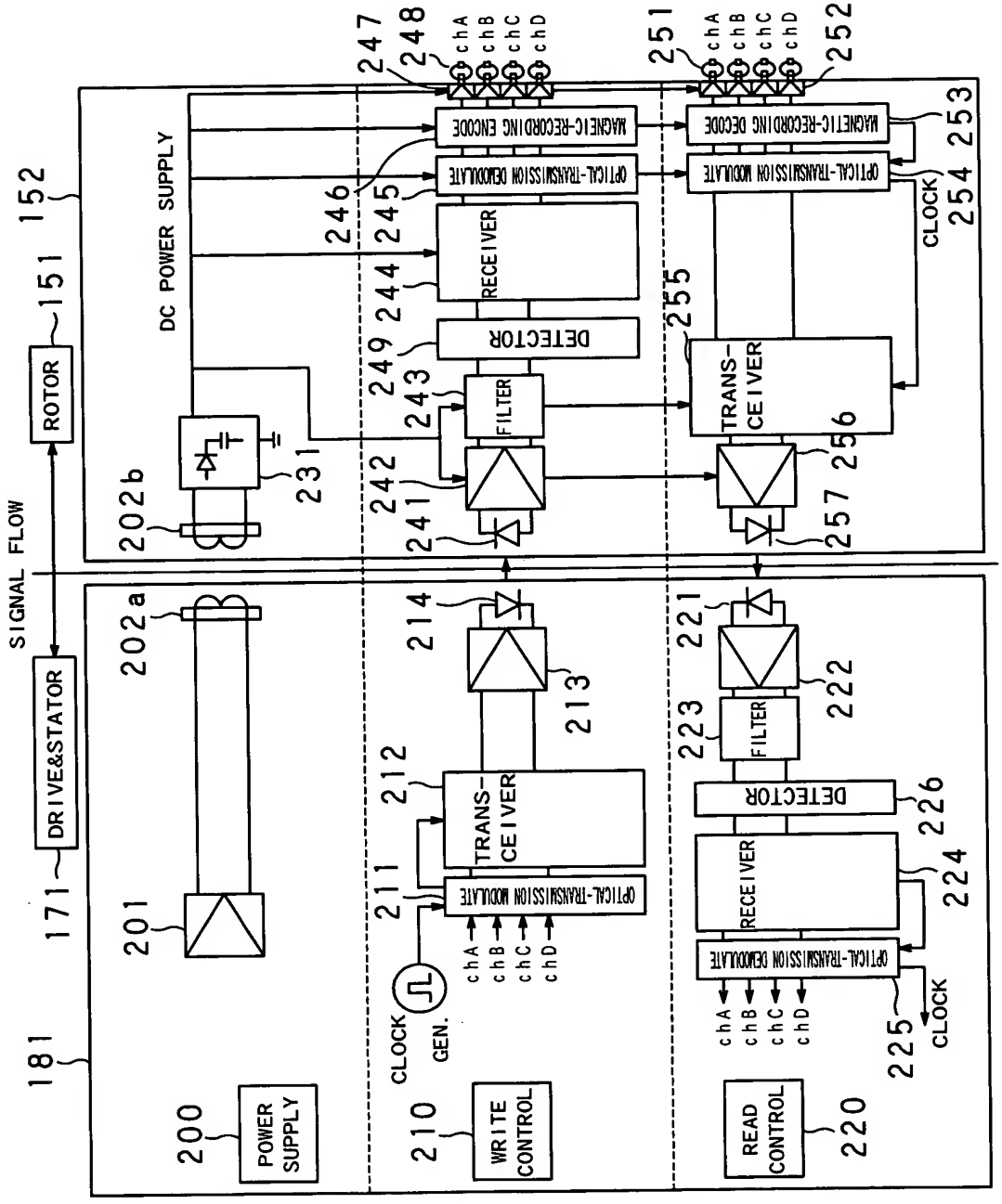

FIG.26

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FIG.27A

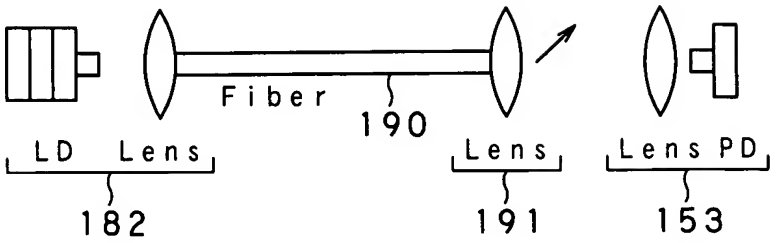


FIG.27B

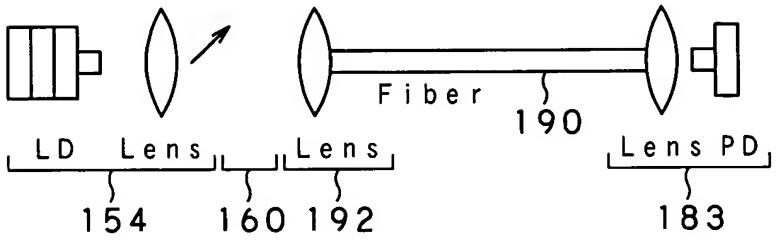


FIG.28A

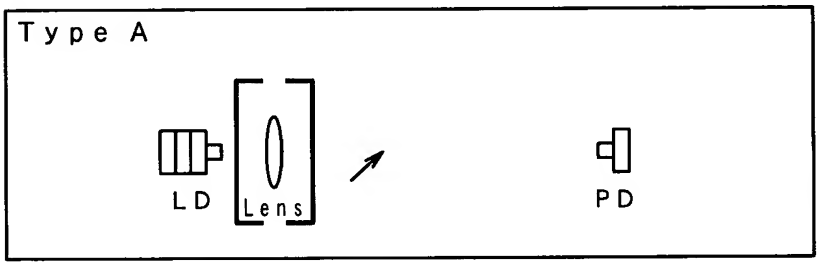


FIG.28B

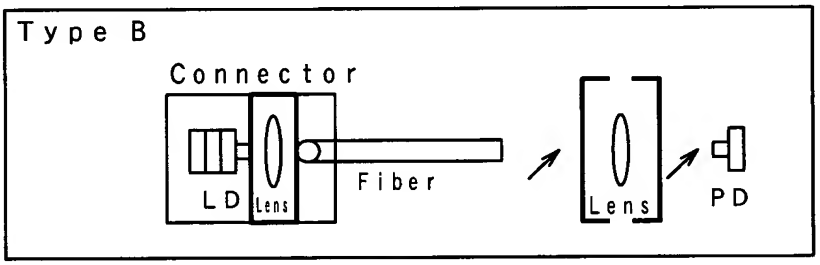


FIG.28C

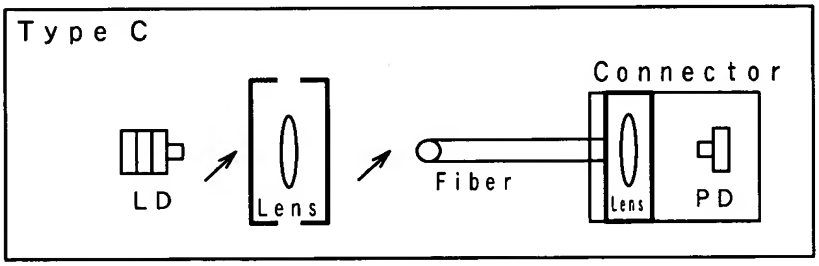
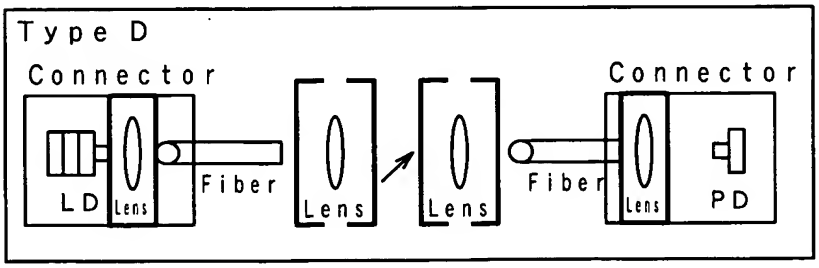


FIG.28D



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